

5 WTC STANDBY GENERATOR
BULKHEAD-POWER PLAN

NOTE:
1. VERIFY EXACT LOCATION OF BATTERY CHARGER WITH
GENERATOR MANUFACTURER APPROVED INSTALLATION
DRAWINGS.

PANEL DESIGNATION:

E.P.

LOCATION:

SWTC ROOF GENERATOR BULKHEAD

SERVICE:

120Y/208 VOLTS

3

PHASE

4

WIRE

W/GRD. BUS

MAINS:

225

AMPS

WITH

125

AMP

MAIN

BKR.

42

POLES

SERVICE TO:	CONN. KVA			BRANCH CIRCUITS	CONN. KVA			SERVICE TO:
	A	B	C		A	B	C	
GEN. #1 GENERATOR HEATER	0.75	1.5A	1	2	2.0A	1.2		GEN. #1 BATTERY CHARGER
GEN. #2 GENERATOR HEATER	0.75	1.5A	3	4	2.0A	1.2		GEN. #2 BATTERY CHARGER
ROOM UNIT HEATERS(401/8 1PEA)	1.0	2.0A	5	6	2.0A	1.0	1.0	ROOM UNIT HEATERS(401/8 1PEA)
BLDG. SCADA I/O, DP	1.2	2.0A	7	8	2.0A	1.0		ROOM UNIT HEATERS(401/8 1PEA)
PNEUMATIC CONTROL PNL	1.2	1.5A	9	10	1.5A	0.7		CONVENIENCE RECEPTACLES
CONVENIENCE RECEPTACLES	1.0	1.0	11	12	1.5A	0.7		CONVENIENCE RECEPTACLES
CONVENIENCE RECEPTACLES	1.0	1.5A	13	14	3.0A	3.0		WELDING RECEPTACLE
RECEPTACLE AT BOOTH (P.C.)	1.5	1.5A	15	16	1.5	3.0		
CONVENIENCE RECEPTACLES	1.5	1.0	17	18	1.5	3.0		
SYSTEM BATTERY CHARGER	2.0	2.0A	19	20	1.5A	0.75		SPARE (FUTURE GEN#5 HEATER)
SPARE (FUTURE GEN#3 HEATER)	0.75	1.5A	21	22	1.5A	0.75		SPARE (FUTURE GEN#6 HEATER)
SPARE (FUTURE GEN#4 HEATER)	0.75	1.5A	23	24	1.5A	1.2		SPARE (FUTURE GEN#5 BAT. CHGR)
SPARE (FUTURE GEN#5 BAT. CHGR)	1.2	1.5A	25	26	1.5A	1.2		SPARE (FUTURE GEN#6 BAT. CHGR)
SPARE (FUTURE GEN#6 BAT. CHGR)	1.2	1.5A	27	28	1.5A	0.75		OUTSIDE LITS VIA TIME SW CONTROL
SECURITY LOCAL CONTROL PNL	1.2	1.5A	29	30	1.5A	2.0		SPARE
CONTROL BOOTH CONDENSER	1.2	2.0A	31	32	1.5A	1.5		CONTROL BOOTH EVAP & REHEAT
SPARE	1.2	2.0A	33	34	1.5	3.0		
			35	36				SPARE
			37	38				
			39	40				
			41	42				

PANEL DESIGNATION: PPR

LOCATION: SWTC ROOF GENERATOR BULKHEAD

SERVICE: 480Y/277 VOLTS 3 PHASE 4 WIRE W/GRD. BUS

MAINS: 400 AMPS WITH 225 AMP MAIN BKR. 42 POLES

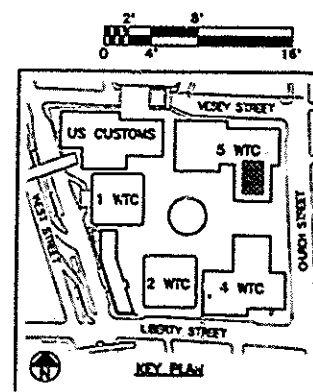
SERVICE TO:	CONN. KVA			BRANCH CIRCUITS	CONN. KVA			SERVICE TO:
	A	B	C		A	B	C	
GEN. #1 JACKET WATER HEATER	3.0	3.0A	1	2	3.0A	3.0	GEN. #1 JACKET WATER HEATER	
GEN. #1 JACKET WATER HEATER	3.0	3.0A	5	6	3.0A	3.0	GEN. #1 JACKET WATER HEATER	
GEN. #1 JACKET WATER HEATER	3.0	3.0A	9	10	3.0A	3.0	PANEL "ELP" LIGHTING	
PANEL "ELP" VIA 300A TOR	10.0	10.0	11	12	7.0	7.0		
FAN EF-27 SHP	10.0	1.0	13	14	7.0	7.0		
	2.5	2.5	15	16	1.5A	0.4	FAN EF-1 THP	
	2.5	2.5	17	18	1.5	0.4		
SPARE(FUTURE G#3 JACKET W.HTR)	3.0	3.0A	21	22	3.0A	3.0	SPARE(FUTURE, G#5 JACKET W.HTR)	
SPARE(FUTURE G#4 JACKET W.HTR)	3.0	3.0A	23	24	3.0A	3.0	SPARE(FUTURE, G#6 JACKET W.HTR)	
DUPLEX FUEL OIL PUMP 2HP	3.0	3.0A	25	26	3.0A	3.0	DUPLEX FUEL OIL PUMP 2HP	
	3.0	3.0A	27	28	3.0A	3.0		
	3.0	3.0A	29	30	3.0A	3.0		
	3.0	3.0A	31	32	3.0A	3.0		
	3.0	3.0A	33	34	3.0A	3.0		
	3.0	3.0A	35	36	3.0A	3.0		
	3.0	3.0A	37	38	3.0A	3.0		
	3.0	3.0A	39	40	3.0A	3.0		
	3.0	3.0A	41	42	3.0A	3.0		

PANEL DESIGNATION: EHP LOCATION: SWTC ROOF GENERATOR BULKHEAD

SERVICE: 277/480 VOLTS 3 PHASE 4 WIRE W/GRD. BUS

MAINS: 100 AMPS WITH 30 AMP MAIN BKR. 12 POLES

SERVICE TO:	CONN. KVA			BRANCH CIRCUITS	CONN. KVA			SERVICE TO:
	A	B	C		A	B	C	
GEN. BULKHEAD LTD.	1.2	1.5	1	1	2	1.5	1.4	GEN. BULKHEAD LTD.
GEN. BULKHEAD LTD.	1.2	1.5	3	4	4	1.5	1.4	GEN. BULKHEAD LTD.
SPARE	1.2	1.5	5	6	6	1.5	1.4	SPARE
-	1.2	1.5	7	8	8	1.5	1.4	-
-	1.2	1.5	9	10	10	1.5	1.4	-
-	1.2	1.5	11	12	12	1.5	1.4	-



THE PORT AUTHORITY
OF NY & NJ

ORIGINAL SIGNED & SEALED BY
N.Y. P.E. (OR R.A.)

Joseph R. Long
& Associates, Inc.
consulting engineers

One Pennsylvania Plaza
New York, New York 10001-2298
Tel: (212) 904-7400, Fax: (212) 904-7402

THE OFFICE OF
DND
BLON
LEONWITZ
PC

LESLIE E. ROBERTSON
ASSOCIATES, R.L.P.
CONSULTING ELECTRICAL ENGINEERS
20 EAST 40TH STREET
NEW YORK, NY 10018-3608
TEL: (212) 697-7400 FAX: (212) 697-7400

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT
COPY OF ONE OF THE CONTRACT DRAWINGS CON-
STITUTING A PART OF CONTRACT NO. NYC-945-071
IN THE FORM IN WHICH SAID DRAWINGS EXISTED
AT THE TIME THE SAID CONTRACT WAS EXECUTED BY
THE PARTIES.

DATE: 11/17/97 Stephen A. Adkin
DATE: 11/17/97 Ph. [Signature]
ENGINEER OF DESIGN

11/17/97 ISSUED FOR BID

No. Date Revision Approval

Engineering Department
Design Divisions

The
World
Trade
Center

STANDBY POWER
5 WORLD TRADE CENTER

ELECTRICAL
GENERATOR BULKHEAD
POWER PLAN

This drawing subject to conditions in contract.
All inventions, ideas, designs and methods
herein are reserved to Port Authority and
may not be used without it's written consent.

Designed by M.A.R. Drawn by Check by

Date 11/17/97 Scale AS NOTED

Contract Number WTC-945.071 Drawing Number E2-01